

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A sheet for ink jet recording, comprising:
a support; and

a coloring material-receiving layer containing a mordant and a compound represented by the following formula (1):



wherein R represents an alkyl group, an aryl group or a heterocyclic group; when a plural number of R's are present, the plurality of R's may be the same or different; at least two of a plurality of R's may be linked with each other to form a cyclic structure; L represents a divalent or higher linking group; M represents a hydrogen atom, an alkali metal cation, an ammonium ion, an organic amine cation, or a negative ion sign; q and r each represents an integer of 1 or more; k and m each represents 0 or an integer of 1 or more; n represents an integer of 1 or more; p represents 0 or an integer of 1 or more; (p+r) is 3 or 4, and when (p+r) is 4, the N atom represents a quaternary ammonium cation and one of the M's represents a negative ion sign;

wherein the coloring material-receiving layer further contains a water-soluble resin and fine particles;

wherein the compound represented by the formula (1) is a compound represented by the following formula (2):



wherein R, L and M each has the same meaning as in formula (1);

wherein the coloring material-receiving layer has a porous structure; and

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wherein the solid content of the fine particles in the coloring material-receiving layer is 60 wt% or more.

2. (currently amended): The sheet for ink jet recording as claimed in claim 1, wherein at least one of R and L in the formula (4) (2) contains a hydrocarbon group having 8 or more carbon atoms.

3. (canceled).

4. (currently amended): The sheet for ink jet recording as claimed in ~~claim 3~~ claim 1, wherein the water-soluble resin is at least one resin selected from the group consisting of polyvinyl alcohol resins, cellulose resins, resins having an ether bond, resins having a carbamoyl group, resins having a carboxyl group, and gelatins.

5. (canceled).

6. (currently amended): The sheet for ink jet recording as claimed in ~~claim 5~~ claim 1, wherein the fine particles is comprise at least one fine particle selected from the group consisting of silica, colloidal silica, alumina and pseudo-boehmite.

7. (currently amended): The sheet for ink jet recording as claimed in ~~claim 3~~ claim 1, wherein the coloring material-receiving layer further contains a crosslinking agent capable of crosslinking the water-soluble resin.

8. (currently amended): The sheet for ink jet recording as claimed in claim 1, wherein the coloring material-receiving layer is a layer obtained by crosslinking a coated layer of a coating solution containing [[a]] the fine particles, [[a]] the water-soluble resin and a crosslinking agent, and the crosslinking is performed by applying a basic solution having a pH value of 8 or more to the coated layer, in which the application of the basic solution is performed (1) simultaneously with the coating of the above coating solution, or (2) in the middle of a drying of the coated layer of the coating solution and before the coated layer shows falling-rate-drying.

9. (canceled).

10. (original): The sheet for ink jet recording as claimed in claim 7, wherein the crosslinking agent is a boron compound.

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11. (withdrawn): An ink for ink jet recording, which comprises a dye, water, a water-miscible organic solvent and a compound represented by the following formula (1):



wherein R represents an alkyl group, an aryl group or a heterocyclic group; when a plural number of Rs are present, the plurality of Rs may be the same or different; at least two of a plurality of R's may be linked with each other to form a cyclic structure; L represents a divalent or higher linking group; M represents a hydrogen atom, an alkali metal cation, an ammonium ion, an organic amine cation, or a negative ion sign; q and r each represents an integer of 1 or more; k and m each represents 0 or an integer of 1 or more; n represents an integer of 1 or more; p represents 0 or an integer of 1 or more; (p+r) is 3 or 4, and when (p+r) is 4, the N atom represents a quaternary ammonium cation and one of the M's represents a negative ion sign.

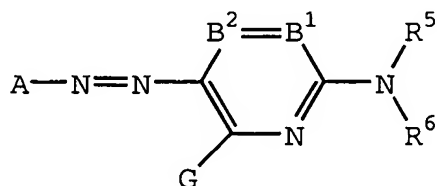
12. (withdrawn): The ink for ink jet recording as claimed in claim 11, wherein at least one of R and L in formula (1) contains a hydrocarbon group having 8 or more carbon atoms.

13. (withdrawn): The ink for ink jet recording as claimed in claim 11, wherein the compound represented by the formula (1) is a compound represented by the following formula (2):



wherein R, L and M each has the same meaning as described in claim 11.

14. (withdrawn): The ink for ink jet recording as claimed in claim 11, wherein the dye includes a compound represented by the following formula (1):



wherein A represents a 5-membered heterocyclic group;

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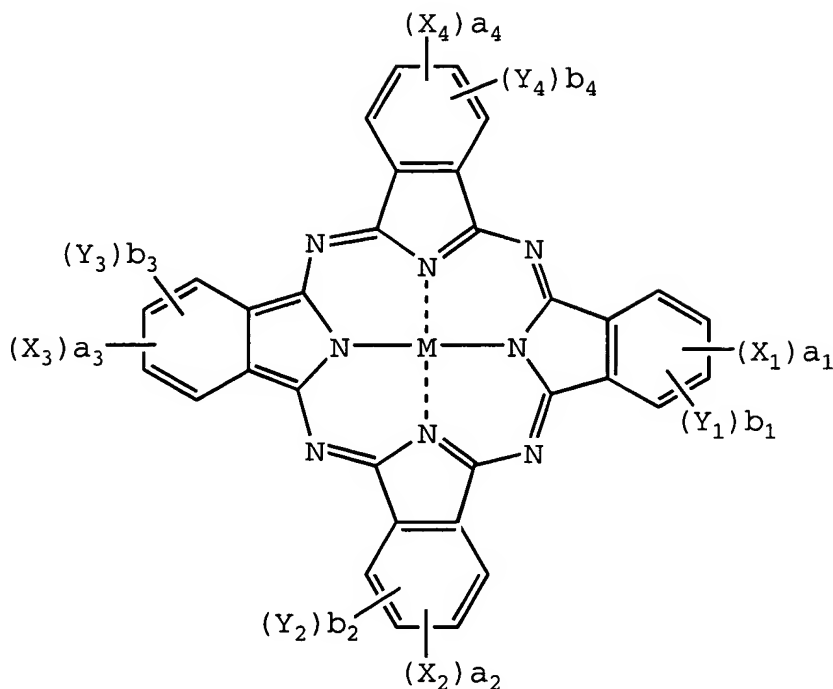
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B¹ and B² each represents a nitrogen atom, =CR¹- or -CR²=, and when either one of B¹ and B² represents a nitrogen atom, the other represents =CR¹- or -CR²=; R⁵ and R⁶ each represents a hydrogen atom, an aliphatic group, an aromatic group, a heterocyclic group, an acyl group, an alkoxycarbonyl group, an aryloxy carbonyl group, a carbamoyl group, an alkylsulfonyl group, an arylsulfonyl group or a sulfamoyl group, and the hydrogen atom of each substituent may be substituted;

G, R¹ and R² each independently represents a hydrogen atom, a halogen atom, an aliphatic group, an aromatic group, a heterocyclic group, a cyano group, a carboxyl group, a carbamoyl group, an alkoxycarbonyl group, an aryloxy carbonyl group, a heterocyclic oxycarbonyl group, an acyl group, a hydroxy group, an alkoxy group, an aryloxy group, a heterocyclic oxy group, a silyloxy group, an acyloxy group, a carbamoyloxy group, an alkoxycarbonyloxy group, an aryloxy carbonyloxy group, an amino group, an acylamino group, a ureido group, a sulfamoylamino group, an alkoxycarbonylamino group, an aryloxy carbonylamino group, an alkylsulfonylamino group, an arylsulfonylamino group, a heterocyclic sulfonylamino group, a nitro group, an alkylthio group, an arylthio group, a heterocyclic thio group, an alkylsulfonyl group, an arylsulfonyl group, a heterocyclic sulfonyl group, an alkylsulfinyl group, an arylsulfinyl group, a heterocyclic sulfinyl group, a sulfamoyl group or a sulfo group, and the hydrogen atom of each substituent may be substituted;

R¹ and R⁵, or R⁵ and R⁶ may combine to form a 5- or 6-membered ring.

15. (withdrawn): The ink for inkjet recording as claimed in claim 11, wherein the dye includes a compound represented by the following formula (I):



wherein X_1 , X_2 , X_3 and X_4 each represents $-\text{SO}-\text{Z}$, $-\text{SO}_2-\text{Z}$, $-\text{SO}_2\text{NR}_1\text{R}_2$, a sulfo group, $-\text{CONR}_1\text{R}_2$ or $-\text{CO}_2\text{R}_1$; Z represents an alkyl group, a cycloalkyl group, an alkenyl group, an aralkyl group, an aryl group or a heterocyclic group, which are substituted or unsubstituted; R_1 and R_2 each represents a hydrogen atom, an alkyl group, a cycloalkyl group, an alkenyl group, an aralkyl group, an aryl group or a heterocyclic group, which are substituted or unsubstituted; when a plural number of Z s are present, the plurality of Z s may be the same or different; Y_1 , Y_2 , Y_3 and Y_4 each represents a monovalent substituent; when a plural number of X_1s , X_2s , X_3s , X_4s , Y_1s , Y_2s , Y_3s or Y_4s are present, the plurality of X_1s , X_2s , X_3s , X_4s , Y_1s , Y_2s , Y_3s or Y_4s may be the same or different; M represents a hydrogen atom, a metal atom, or an oxide, hydroxide or halide thereof; a_1 to a_4 and b_1 to b_4 each represents the number of substituent X_1 , X_2 , X_3 , X_4 , Y_1 , Y_2 , Y_3 or Y_4 , and a_1 to a_4 each represents an integer of 0 to 4 but all of a_1 to a_4 are not 0 at the same time; b_1 to b_4 each represents an integer of 0 to 4.

16. (withdrawn): A concentrated ink composition comprising a dye, water, and a compound represented by the following formula (1):



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wherein R represents an alkyl group, an aryl group or a heterocyclic group; when a plural number of Rs are present, the plurality of Rs may be the same or different; at least two of a plurality of R's may be linked with each other to form a cyclic structure; L represents a divalent or higher linking group; M represents a hydrogen atom, an alkali metal cation, an ammonium ion, an organic amine cation, or a negative ion sign; q and r each represents an integer of 1 or more; k and m each represents 0 or an integer of 1 or more; n represents an integer of 1 or more; p represents 0 or an integer of 1 or more; (p+r) is 3 or 4, and when (p+r) is 4, the N atom represents a quaternary ammonium cation and one of the M's represents a negative ion sign.

17. (withdrawn): The concentrated ink composition as claimed in claim 16, which comprises the compound represented by the formula (1) in an amount of from 0.001 to 30 wt%.

18. (withdrawn): The concentrated ink composition as claimed in claim 16, which comprises the dye in an amount of from 0.01 to 50 wt%.

19. (withdrawn): A method for manufacturing an ink for ink jet recording, which comprises manufacturing the ink by using the concentrated ink composition as claimed in claim 16.

20. (withdrawn): An ink set for ink jet recording, which comprises the ink for ink jet recording as claimed in claim 11.

21. (original): An ink jet recording method which comprises recording an image by using the sheet for ink jet recording as claimed in claim 1.

22. (withdrawn): An ink jet recording method which comprises recording an image by using the ink for ink jet recording as claimed in claim 11 with an ink jet printer.

23. (withdrawn): An ink jet recording method which comprises recording an image by using the ink set as claimed in claim 20 with an ink jet printer.

24. (new): The sheet for ink jet recording as claimed in claim 1, wherein the content of the water-soluble resin is from 9 to 40 wt% based on the total solid content weight of the coloring material-receiving layer.

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25. (new): The sheet for ink jet recording as claimed in claim 1, wherein the ratio by weight of the fine particles to the water-soluble resin in the coloring material-receiving layer is from 1.5/1 to 10/1.